(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 14 December 2000 (14.12.2000)

PCT

(10) International Publication Number WO 00/75299 A1

(51) International Patent Classification⁷: C12N 15/00, 15/64, 1/21, 1/15, 15/74, C07H 21/04

(21) International Application Number: PCT/US00/15588

(22) International Filing Date: 7 June 2000 (07.06.2000)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/137,974 7 June 1999 (07.06.1999) US 09/409,577 30 September 1999 (30.09.1999) US 09/484,830 18 January 2000 (18.01.2000) US

- (71) Applicant (for all designated States except US): CELL GENESYS, INC. [US/US]; 342 Lakeside Drive, Foster City, CA 94404 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MENDEZ, Michael [US/US]; 471 El Granada Boulevard, El Granada, CA 94018 (US). FINER, Mitchell [US/US]; 21 Oakhaven, Woodside, CA 94062 (US).
- (74) Agents: NAKAMURA, Dean et al.; Roylance, Abrams, Berdo & Goodman, LLP, 1300 19th Street, NW, Suite 315, Washington, DC 20036 (US).

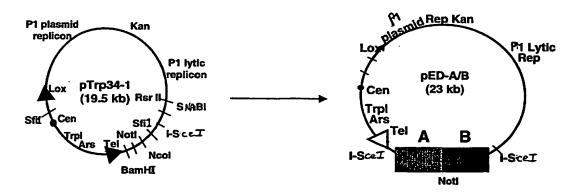
- (81) Designated States (national): AE, AG, AL, AM, AT, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (utility model), DE, DE (utility model), DK, DK (utility model), DM, DZ, EE, EE (utility model), ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KR (utility model), KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

- With international search report.
- Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HYBRID YEAST-BACTERIA CLONING SYSTEM AND USES THEREOF



(57) Abstract: A recombinational approach and system for the cloning, manipulation and delivery of large nucleic acids is disclosed.

Vectors relying on homologous recombination to mediate the isolation, manipulation and delivery of large nucleic acid segments are disclosed.

A 00C37/0